

Aquifer

**Recharge and
Recovery**

**Industry and Community Working
in Partnership**

OPTIONS CONSIDERED IN 1994 TO MAINTAIN WATER SUPPLY

Relocate new production facilities away from SE Boise

Increase wastewater recycle rate

Relocate diversions to outside of GWMA

Treat Boise River water for quality and temperature

Recharge the aquifer with Boise River water

ARR

(Aquifer Recharge and Recovery)

Store water underground during times of plentiful supply

Recover water from wells during times of short supply

Successfully used in many places around the world

Quality or quantity purposes

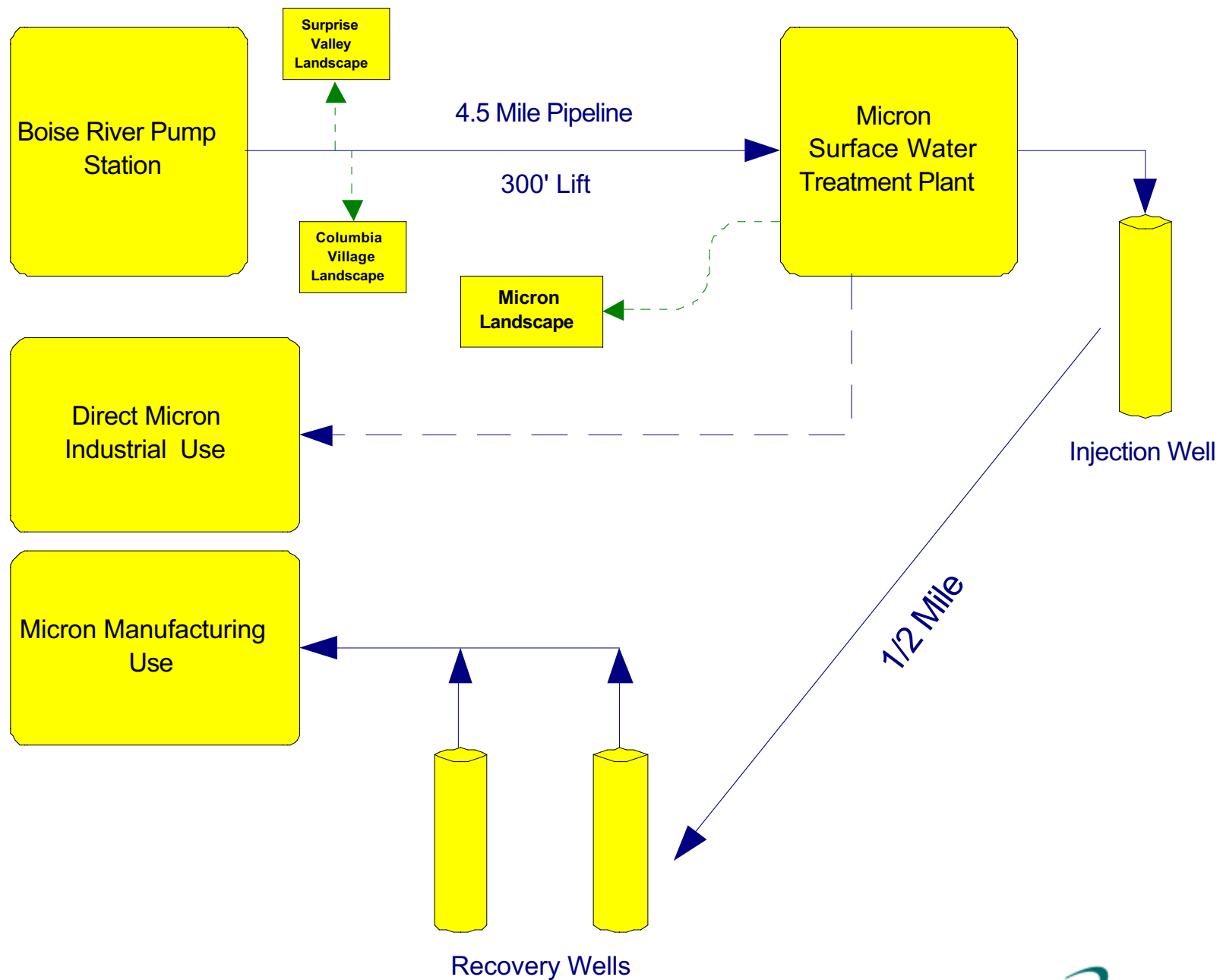
Typically involves injection and recovery from the same well

Micron ARR Goals

Achieve stabilization of local aquifer water levels

Augment the local groundwater supply for future use

Maintain or improve existing groundwater quality



Pump Station



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Micron Surface Water Treatment Plant

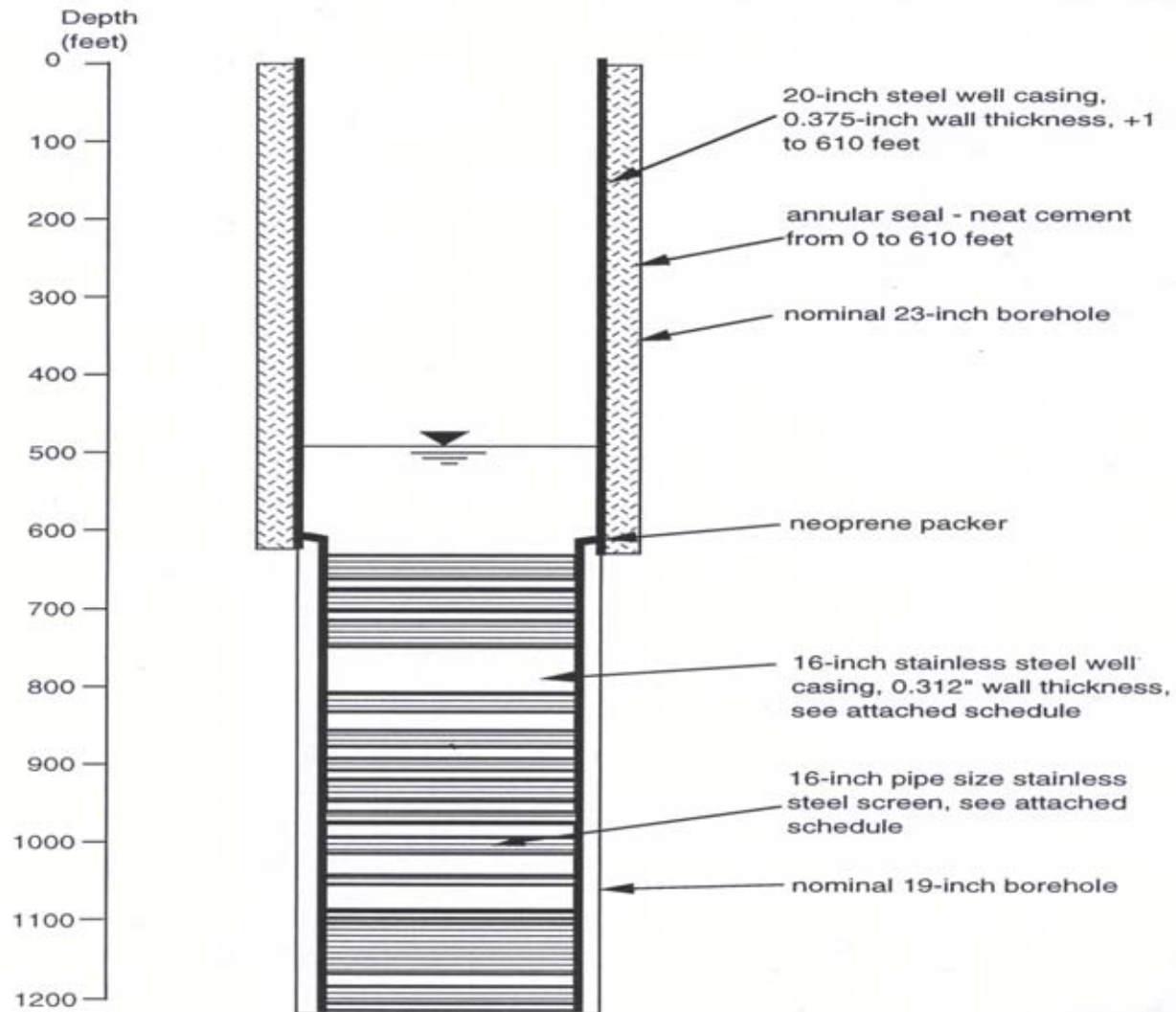


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MICRON WELL NO. 5 - FINAL WELL DESIGN

Project Status

Since start-up in 1998, the project has delivered 9,850 AF of surface water from Boise River which otherwise would have been supported by ground water from the SBGWMA

ARR Demonstration Phase operational March 1, 2001

Recharge flow rate 450 gpm summer to 650 gpm winter

Total Recharged to May 2004 approximately 1,850 AF

Treatment and recharge system designed for 3,000 gpm

Closing Comments

Aquifer conditions in the Southeast Boise GWMA are not typical of most areas in the Treasure Valley.

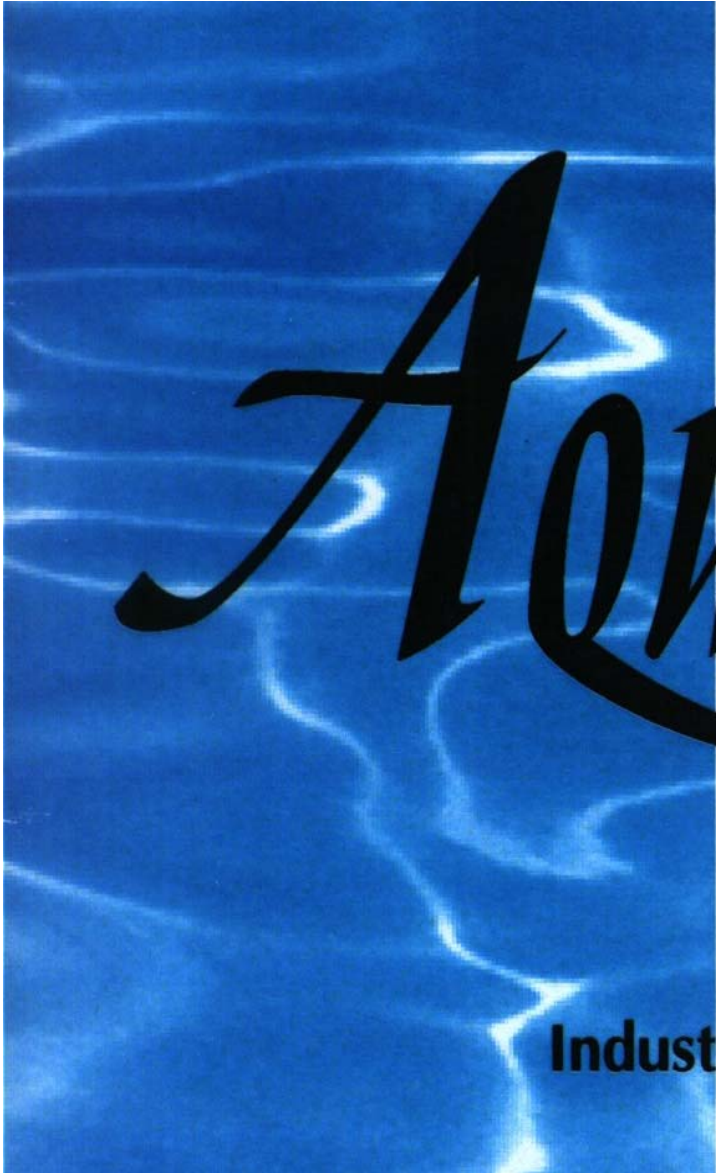
Closing Comments

The project provides one model for conjunctive surface water and ground water use, but certainly not the only model. Micron is treating the recharge water to meet specific Company goals and requirements related to water quality. Treatment may or may not be applicable for other projects, depending on the situation.

Closing Comments

The water right mechanism for recovering recharged groundwater (i.e., new water right permit with mitigation plan) is flexible enough to accommodate a variety of recharge, storage, and recovery situations.

Future projects of this nature will require the cooperation of other water users, and local, State, and Federal entities.



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